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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/840,183	(	05/05/2004	Andrew Bellis	15114H-074800US	7497
26059	7590	06/15/2006		EXAM	INER
		TOWNSEND ANI	NGUYEN, THAN VINH		
8TH FLOOR		CO CEIVIER	ART UNIT	PAPER NUMBER	
SAN FRAN	CISCO, C	CA 94111-3834	2187		

DATE MAILED: 06/15/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)		
		10/840,183	BELLIS ET AL.		
	Office Action Summary	Examiner	Art Unit		
		Than Nguyen	2187		
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the	correspondence address		
A SH WHIC - Exter after - If NC - Failu Any I	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Poperiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. mely filed  the mailing date of this communication. ED (35 U.S.C. § 133).		
Status					
2a)	Responsive to communication(s) filed on <u>05 M</u> .  This action is <b>FINAL</b> . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final.  nce except for formal matters, pre			
Dispositi	on of Claims				
5)□ 6)⊠ 7)⊠	Claim(s) <u>1-16</u> is/are pending in the application.  4a) Of the above claim(s) is/are withdray Claim(s) is/are allowed.  Claim(s) <u>1 and 12-16</u> is/are rejected.  Claim(s) <u>2-11</u> is/are objected to.  Claim(s) are subject to restriction and/or	vn from consideration.			
Applicati	on Papers				
10)⊠	The specification is objected to by the Examiner The drawing(s) filed on <u>05 May 2004</u> is/are: a) Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction to the oath or declaration is objected to by the Ex	☑ accepted or b)☐ objected to drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).		
Priority u	ınder 35 U.S.C. § 119				
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment	t(s)				
2) 🔲 Notice 3) 🔲 Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D  5) Notice of Informal F  6) Other:			

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### **DETAILED ACTION**

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1. Claims 1-16 are pending.

## **Specification**

2. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

The following title is suggested: Prefetching Data Based On Predetermined Criteria.

## Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

4. Claims 1,12-16 are rejected under 35 U.S.C. 102(e) as being anticipated by Azevedo et al (US 7,035,979).

As to claim 1,12,13,16:

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5. Azevedo teaches a method and apparatus for optimizing cache hit ratio. Azevedo teaches

the claimed system and its method of operation of performing a prefetch operation:

testing whether a present read access request is such that there is a high probability that said

present read access request relates to configuration data for said programmable logic device

(recognize if request is of a recognized pattern; 12/4-11; Fig 11, 1130); and performing a

prefetch operation only if it is determined that there is a high probability that said present read

access request relates to configuration data for said programmable logic device (perform prefetch

if request is a recognized pattern; 12/4-11; Fig. 11, 1140).

As to claim 14:

6. Azevedo teaches wherein said external memory device comprises a flash memory device

(13/18).

As to claim 15:

7. Azevedo teaches wherein said external memory device comprises a SRAM device (6/31-

34).

Allowable Subject Matter

8. Claims 2-11 are objected to as being dependent upon a rejected base claim, but would be

allowable if rewritten in independent form including all of the limitations of the base claim and

any intervening claims.

9. As to claim 2, the prior art of record does not further suggest the step of testing whether a

present read access request is such that there is a high probability that said present read access

request relates to configuration data for said programmable logic device comprises: determining

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whether the present read access request relates to a burst type from a predetermined group of suitable burst types, selected from the possible burst types.

- 10. Claims 3 and 9-11 are also allowable for incorporating the limitations of claim 2, and further limitations.
- 11. As to claim 4, the prior art of record does not further suggest if it is determined that a prefetch operation is to be performed: when the present read access request is completed, testing whether a read buffer contains an amount of unused space exceeding a predetermined threshold; and performing the prefetch operation only if it determined that the read buffer contains an amount of unused space exceeding a predetermined threshold.
- 12. Claims 5-8 are also allowable for incorporating the limitations of claim 4, and further limitations.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Than Nguyen whose telephone number is 571-272-4198. The examiner can normally be reached on 8am-3pm M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Donald Sparks can be reached on (571) 272-4201. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Primary Examiner
Art Unit 2187